

AMENDMENTS TO THE CLAIMS

1. (currently amended) A powered toothbrush comprising a handle, a head with cleaning elements thereon movable relative to the handle, a motor with a drive shaft, a first housing fixedly connected to the drive shaft having a first cam device thereon, a second housing having a non-rotational second cam device cooperatively engaged with the first cam device on the first housing to convert rotational movement of the first housing into reciprocating motion of the second housing along the longitudinal axis of the toothbrush, a volute extension of the second housing cooperatively mating with an opening in a portion of the head to translate reciprocating movement of the second housing into oscillating motion of the cleaning elements about the longitudinal axis of the toothbrush.
2. (previously presented) The powered toothbrush of claim 1 wherein the first and second cam devices on the housings are a cam follower and mating helical track for the cam follower.
3. (original) The powered toothbrush of claim 1 wherein the head of the toothbrush is removable.
4. (original) The powered toothbrush of claim 1 wherein the handle includes an upper conical enclosure surrounding the first and second housings, the conical enclosure having an upper sliding surface.
5. (original) The powered toothbrush of claim 4 wherein the head includes a stem with a lower sliding surface that facilitates movement across the upper sliding surface on the upper conical enclosure of the handle.
6. (canceled)
7. (previously presented) The powered toothbrush of claim 2, wherein the cam follower is disposed on the first housing and the mating helical track is disposed on the second housing.
8. (currently amended) A powered toothbrush comprising a handle, a head with cleaning elements thereon movable relative to the handle, a motor with a drive shaft, a first housing fixedly connected to the drive shaft having a first cam device thereon, a second housing having a non-rotational second cam device cooperatively engaged with the first cam device on the first housing to convert rotational movement of the first housing into reciprocating motion of

the second housing along the longitudinal axis of the toothbrush, an extension of the second housing cooperatively mating with an opening in a portion of the head for translating reciprocating movement of the second housing into oscillating motion of the cleaning elements about the longitudinal axis of the toothbrush.

9. (previously presented) The powered toothbrush of claim 8 wherein the first and second cam devices on the housings are a cam follower and mating helical track for the cam follower.

10. (previously presented) The powered toothbrush of claim 8 wherein the head of the toothbrush is removable.

11. (previously presented) The powered toothbrush of claim 8 wherein the handle includes an upper conical enclosure surrounding the first and second housings, the conical enclosure having an upper sliding surface.

12. (previously presented) The powered toothbrush of claim 11 wherein the head includes a stem with a lower sliding surface that facilitates movement across the upper sliding surface on the upper conical enclosure of the handle.

13. (previously presented) The powered toothbrush of claim 9, wherein the cam follower is disposed on the first housing and the mating helical track is disposed on the second housing.